

SEQUENCE LISTING

(1) GENERAL INFORMATION:

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(i) APPLICANT:

- (A) NAME: Dr.Rentschler Biotechnologie GmbH
- (B) STREET: Erwin-Rentschler-Str. 21
- (C) TOWN: Laupheim
- (E) COUNTRY: Germany
- (F) POSTCODE: D-88471

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(ii) TITLE OF THE INVENTION: Liquid interferon- β
formulations

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(iii) NUMBER OF SEQUENCES: 14

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(iv) COMPUTER-READABLE VERSION:

- (A) MEDIUM TYPE: Floppy disk
- (B) COMPUTER: IBM/PC compatible
- (C) OPERATING SYSTEM: PC-DOS/MS-DOS
- (D) SOFTWARE: PatentIn Release #1.0, Version
#1.30 (EPA)

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(2) INFORMATION FOR SEQ ID NO: 1:

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(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 7 aminoacids
- (B) TYPE: aminoacid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

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(viii) POSITION IN THE GENOME:

- (B) MAP POSITION: 109-115

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Glu Asp Phe Thr Arg Gly Lys
1 5

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(2) INFORMATION FOR SEQ ID NO: 2:

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(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6 aminoacids
- (B) TYPE: aminoacid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(viii) POSITION IN THE GENOME:

5 (B) MAP POSITION: 100-105

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

10 **Thr Val Leu Glu Glu Lys**
1 5

15 (2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

15 (A) LENGTH: 7 aminoacids
(B) TYPE: aminoacid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

20 (ii) MOLECULE TYPE: peptide

25 (viii) POSITION IN THE GENOME:

(B) MAP POSITION: 46-52

25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

30 **Gln Leu Gln Gln Phe Gln Lys**
1 5

35 (2) INFORMATION FOR SEQ ID NO: 4:

30 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 8 aminoacids
(B) TYPE: aminoacid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

35 (ii) MOLECULE TYPE: peptide

40 (viii) POSITION IN THE GENOME:

(B) MAP POSITION: 116-123

40 (ix) FEATURE:

(A) NAME/KEY: Modified-site
(B) POSITION: 2
(C) OTHER INFORMATION:/product= "Xaa =
45 Met(oxidized)"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

Leu Xaa Ser Ser Leu His Leu Lys
1 5

5 (2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 8 aminoacids
- (B) TYPE: aminoacid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

15 (viii) POSITION IN THE GENOME:

- (B) MAP POSITION: 116-123

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

Leu Met Ser Ser Leu His Leu Lys
1 5

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(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 12 aminoacids
- (B) TYPE: aminoacid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

30 (ii) MOLECULE TYPE: peptide

(viii) POSITION IN THE GENOME:

- (B) MAP POSITION: 34-45

35 (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) POSITION: 3
- (C) OTHER INFORMATION:/product= "Xaa = Met (oxidized)"

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Asp Arg Xaa Asn Phe Asp Ile Pro Glu Glu Ile Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 11 aminoacids
(B) TYPE: aminoacid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(viii) POSITION IN THE GENOME:

(B) MAP POSITION: 124-134

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

Arg Tyr Tyr Gly Arg Ile Leu His Tyr Leu Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO: 8:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 12 aminoacids
(B) TYPE: aminoacid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(viii) POSITION IN THE GENOME:

(B) MAP POSITION: 34-45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO: 9:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 14 aminoacids
(B) TYPE: aminoacid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(viii) POSITION IN THE GENOME:

(B) MAP POSITION: 20-33

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys
1 5 10

(2) INFORMATION FOR SEQ ID NO: 10:

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(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 aminoacids
- (B) TYPE: aminoacid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: peptide

(viii) POSITION IN THE GENOME:

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- (B) MAP POSITION: 1-19

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(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) POSITION: 1
- (C) OTHER INFORMATION: product= "Xaa = Met (oxidized)"

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

Xaa Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
1 5 10 15

Cys Gln Lys

(2) INFORMATION FOR SEQ ID NO: 11:

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(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 aminoacids
- (B) TYPE: aminoacid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: peptide

(viii) POSITION IN THE GENOME:

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- (B) MAP POSITION: 1-19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
1 5 10 15

Cys Gln Lys

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(2) INFORMATION FOR SEQ ID NO: 12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 aminoacids
- (B) TYPE: aminoacid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(viii) POSITION IN THE GENOME:

- (B) MAP POSITION: 137-166

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

Glu Tyr Ser His Cys Ala Thr Ile Val Arg Val Glu Ile Leu Arg
1 5 10 15

Asn Phe Tyr Phe Ile Asn Arg Leu Thr Gly Tyr Leu Arg Asn
20 25 30

(2) INFORMATION FOR SEQ ID NO: 13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 aminoacids
- (B) TYPE: aminoacid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(viii) POSITION IN THE GENOME:

- (B) MAP POSITION: 53-99

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) POSITION: 10
- (C) OTHER INFORMATION:/product= "Xaa = Met(oxidized)"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

Glu Asp Ala Ala Leu Thr Ile Tyr Glu Xaa Leu Gln Asn Ile Phe Ala
1 5 10 15

Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn Glu Thr Ile Val
20 25 30

Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn His Leu Lys
35 40 45

(2) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:

- 5 (A) LENGTH: 47 aminoacids
- (B) TYPE: aminoacid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

10 (ii) MOLECULE TYPE: peptide

15 (viii) POSITION IN THE GENOME:

- (B) MAP POSITION: 53-99

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

Glu	Asp	Ala	Ala	Leu	Thr	Ile	Tyr	Glu	Met	Leu	Gln	Asn	Ile	Phe	Ala
1				5					10					15	
Ile	Phe	Arg	Gln	Asp	Ser	Ser	Ser	Thr	Gly	Trp	Asn	Glu	Thr	Ile	Val
	20							25					30		
Glu	Asn	Leu	Leu	Ala	Asn	Val	Tyr	His	Gln	Ile	Asn	His	Leu	Lys	
		35					40					45			